

## **APPENDIX B**

### **Data Tables**

**Table B-1: Plants Observed in Project Vicinity**

Common Name	Scientific Name	Native?	Noxious Weed Class
<b>Trees</b>			
Bigleaf maple	<i>Acer macrophyllum</i>	✓	
Cascara	<i>Frangula purshiana</i> (= <i>Rhamnus purshiana</i> )	✓	
Douglas-fir	<i>Pseudotsuga menziesii</i>	✓	
Pacific yew	<i>Taxus brevifolia</i>	✓	
Red alder	<i>Alnus rubra</i>	✓	
Sitka spruce	<i>Picea sitchensis</i>	✓	
Western hemlock	<i>Tsuga heterophylla</i>	✓	
Western redcedar	<i>Thuja plicata</i>	✓	
<b>Shrubs</b>			
Douglas' spirea	<i>Spiraea douglasii</i>	✓	
Evergreen blackberry	<i>Rubus laciniatus</i>		
Fool's huckleberry	<i>Menziesia ferruginea</i>	✓	
Himalayan blackberry	<i>Rubus discolor</i>		
Indian plum	<i>Oemleria cerasiformis</i>	✓	
Ninebark	<i>Physocarpus capitatus</i>	✓	
Ocean-spray	<i>Holodiscus discolor</i>	✓	
Oregongrape	<i>Berberis nervosa</i>	✓	
Red elderberry	<i>Sambucus racemosa</i>	✓	
Red huckleberry	<i>Vaccinium parvifolium</i>	✓	
Salal	<i>Gaultheria shallon</i>	✓	
Salmonberry	<i>Rubus spectabilis</i>	✓	
Scot's broom	<i>Cytisus scoparius</i>		B <sup>a</sup>
Sitka willow	<i>Salix sitchensis</i>	✓	
Thimbleberry	<i>Rubus parviflorus</i>	✓	
Trailing or Pacific blackberry	<i>Rubus ursinus</i>	✓	
Vine maple	<i>Acer circinatum</i>	✓	
Willow	<i>Salix sp.</i>	✓	
<b>Herbs</b>			
Angled bittercress	<i>Cardamine angulata</i>	✓	
Bentgrasses	<i>Agrostis spp.</i>		
Bigroot (wild cucumber)	<i>Marah oreganus</i>	✓	
Boltonia	<i>Boltonia asteroides</i>		
Bracken fern	<i>Pteridium aquilinum</i>	✓	
Birdsfoot-trefoil	<i>Lotus corniculatus</i>		
Bull thistle	<i>Cirsium vulgare</i>		C
Canada thistle	<i>Cirsium arvense</i>		C
Cleavers (bedstraw)	<i>Galium aparine</i>	✓	
Columbia brome	<i>Bromus vulgaris</i>	✓	
Common cat-tail	<i>Typha latifolia</i>	✓	
Common horsetail	<i>Equisetum arvensis</i>	✓	

**Table B-1: Plants Observed in Project Vicinity (cont.)**

Common Name	Scientific Name	Native?	Noxious Weed Class
<b>Herbs (cont.)</b>			
Common plantain	<i>Plantago major</i>		
Common St. John's-wort	<i>Hypericum perforatum</i>		C
Sow thistle	<i>Sonchus oleraceus</i>		
Common tansy	<i>Tanacetum vulgare</i>		C
Common velvetgrass	<i>Holcus lanatus</i>		
Cooley's hedgenettle	<i>Stachys cooleyae</i>	✓	
Cow-parsnip	<i>Heracleum lanatum</i>	✓	
Creeping buttercup	<i>Ranunculus repens</i>		
Curly dock	<i>Rumex crispus</i>		
Deer fern	<i>Blechnum spicant</i>	✓	
Diffuse knapweed	<i>Centaurea diffusa</i>		B <sup>b</sup>
Elk-moss	<i>Lycopodium clavatum</i>	✓	
English Plantain	<i>Plantago lanceolata</i>		
False lily-of-the-valley	<i>Maianthemum dilatatum</i>	✓	
Fireweed	<i>Epilobium angustifolium</i>	✓	
Foamflower	<i>Tiarella trifoliata</i>	✓	
Foxglove	<i>Digitalis purpurea</i>		
Giant horsetail	<i>Equisetum telmateia</i>	✓	
Hairy cat's-ear	<i>Hypochaeris radicata</i>		B <sup>a</sup>
Hairy willow-herb	<i>Epilobium ciliatum</i>	✓	
Inside-out flower	<i>Vancouveria hexandra</i>	✓	
Japanese knotweed	<i>Polygonum cuspidatum</i>		B <sup>a</sup>
Kentucky bluegrass	<i>Poa pratensis</i>		
Lady fern	<i>Athyrium filix-femina</i>	✓	
Large-leaf avens	<i>Geum macrophyllum</i>	✓	
Mountain sweet-cicely	<i>Osmorhiza chilensis</i>	✓	
Oxeye daisy	<i>Leucanthemum vulgare</i> (= <i>Chrysanthemum leucanthemum</i> )		B <sup>a</sup>
Pearly everlasting	<i>Anaphalis margaritacea</i>	✓	
Pig-a-back plant	<i>Tolmiea menziesii</i>	✓	
Pioneer violet	<i>Viola glabella</i>	✓	
Red fescue	<i>Festuca rubra</i>	✓	
Reed canarygrass	<i>Phalaris arundinacea</i>		C
Sedges	<i>Carex</i> spp.	✓	
Self-heal	<i>Prunella vulgaris</i>	✓	
Skunk cabbage	<i>Lysichiton americanus</i>	✓	
Slough sedge	<i>Carex obnupta</i>	✓	
Small-fruited bulrush	<i>Scirpus microcarpus</i>	✓	
Smooth hawksbeard	<i>Crepis capillaris</i>		
Soft rush	<i>Juncus effusus</i>	✓	
Spreading wood fern	<i>Dryopteris expansa</i>	✓	
Sweet coltsfoot	<i>Petasites frigidus</i>	✓	

**Table B-1: Plants Observed in Project Vicinity (cont.)**

Common Name	Scientific Name	Native?	Noxious Weed Class
<b>Herbs (cont.)</b>			
Swordfern	<i>Polystichum munitum</i>	✓	
Tansy ragwort	<i>Senecio jacobaea</i>		B <sup>c</sup>
Twinflower	<i>Linnaea borealis</i>	✓	
Vanillaleaf	<i>Achlys triphylla</i>	✓	
Water parsley	<i>Oenanthe sarmentosa</i>	✓	
Western springbeauty	<i>Claytonia sibirica</i>	✓	
White clover	<i>Trifolium repens</i>		
White trillium	<i>Trillium ovatum</i>	✓	
Wild carrot	<i>Daucus carota</i>		B <sup>a</sup>
Wood sorrel	<i>Oxalis oregana</i>	✓	

<sup>a</sup> Class B not designated for control in either Pacific or Grays Harbor County.

<sup>b</sup> Class B designated for control in both Pacific and Grays Harbor County

<sup>c</sup> Class B not designated for control in Pacific or Grays Harbor County but selected for control by Pacific County Noxious Weed Control Board.

Table B-2: Stream Types and Fish Presence in the Project Corridor.							
				Known Fish Presence <sup>†</sup>			
Stream Name	Adjacent Structures	DNR Stream Type*	WDFW Modified Stream Type	Anadromous	Resident	WDFW Priority Habitat**	Comments
Butte Creek	South of 1	1-3		Coho salmon; Winter steelhead; Cutthroat trout	Cutthroat trout		
<i>Unnamed Trib. No. 1</i>	4-5	4-5 <sup>a</sup>					Primary trib to Butte Cr
Unnamed Trib. No. 2	5-6	5					Primary trib to Butte Cr
Butte Creek	6-7	1-3		Coho salmon			
Unnamed Trib. No. 3	7-8	5					Primary trib to Butte Cr
Unnamed Trib. No. 4	9-10	5					Primary trib to Butte Cr
Unnamed Trib. No. 5	13-14	4-5					Secondary trib to Smith Cr.
Unnamed Trib. No. 6	15-16	5					Secondary trib to Smith Cr.
Unnamed Trib. No. 7	22-23	1-3			Cutthroat trout	R	Primary trib to Smith Cr
<i>Smith Creek</i>	26-27	1-3		Chinook salmon, Chum salmon; Coho salmon; Cutthroat trout	Cutthroat trout	AR	
Unnamed Trib. No. 8	28-29	5					Primary trib to Smith Cr
Unnamed Channel No. 1	32-33	4					
Unnamed Channel No. 2	35A	5					
Unnamed Channel No. 3	35-36	5					
Elk Horn Creek	40-41	1-3		Chinook salmon; Coho salmon; Cutthroat trout	Cutthroat trout	AR	
Unnamed Trib. No. 9	42-43	1-3			Cutthroat trout		Primary trib to Elk Horn Cr
<i>Unnamed Trib. 10</i>	43-44	1-3 <sup>a</sup>		<i>Unknown</i>	<i>Unknown</i>		Primary trib. to Elk Horn Cr.
Unnamed Trib. No. 11	50-51	4	1-3		Cutthroat trout		Secondary trib to Elk Horn Cr.
Unnamed Trib. No. 12	52-53	4	1-3		Cutthroat trout		Secondary trib to Elk Horn Cr.
Unnamed Trib. No. 13	56-57	5					Secondary trib to Elk Horn Cr.
Unnamed Trib. No. 14	56-57	5					Secondary trib to Elk Horn Cr.
Unnamed Trib. No. 15	62-63	4	1-3		Cutthroat trout		Primary trib to Lower Salmon Cr
Unnamed Trib. No. 16	65-66	5					Primary trib to Lower Salmon Cr
Unnamed Trib. No. 17	65-66	1-3			Cutthroat trout		Primary trib to Lower Salmon Cr

Lower Salmon Creek	65-66	1-3		Chinook salmon, Chum salmon; Coho salmon; Cutthroat trout	Cutthroat trout	AR	
Unnamed Trib. No. 18	67A-68A	1-3			Cutthroat trout		Primary trib to Lower Salmon Cr
Unnamed Trib. No. 19	72-73	1-3		Coho salmon	Cutthroat trout	R	Primary trib to Lower Salmon Cr
Lower Salmon Creek	73-74	1-3		Chinook salmon; Chum salmon; Coho; Winter Steelhead; Cutthroat trout	Cutthroat trout	AR	
Unnamed Trib. No. 20	75-76	5					Primary trib to Lower Salmon Cr
Unnamed Trib. No. 21	79-80	5					Secondary trib to Lower Salmon Cr
Unnamed Trib. No. 22	80-81	1-3		Coho salmon			Primary trib to Lower Salmon Cr
Unnamed Trib. No. 23	82-83	5					Primary trib to Lower Salmon Cr
Unnamed Trib. No. 24	84-85	5	1-3		Cutthroat trout		Secondary trib to Joe Cr
Unnamed Trib. No. 25	85-86	5	1-3		Cutthroat trout		Secondary trib to Joe Cr
Unnamed Trib. No. 26	86-87	4	1-3		Cutthroat trout		Primary trib to Joe Cr
Unnamed Trib. No. 27	87-88	1-3/5					Primary trib to Joe Cr
<i>Unnamed Trib. 28</i>	88-89	<i>4-5<sup>a</sup></i>					
Joe Creek	90-91	1-3		Coho salmon; Cutthroat trout	Cutthroat trout	AR	
Unnamed Trib. No. 29	91-92	1-3		Coho salmon			Primary trib to Joe Cr
Unnamed Trib. No. 30	93-94	1-3					Primary trib to Joe Cr
Unnamed Trib. No. 31	93-94	5					Secondary trib to Joe Cr
Unnamed Trib. No. 32	95-96	5	1-3		Cutthroat trout		Secondary trib to Joe Cr
Unnamed Trib. No. 33	97-98	1-3			Cutthroat trout		Secondary trib to Joe Cr
Unnamed Trib. No. 34	100-101	5					Secondary trib to Joe Cr
Unnamed Trib. No. 35	102-103	5					Secondary trib to Joe Cr
Unnamed Trib. No. 36	110-111	1-3			Salmonids		Secondary trib to North River
Unnamed Trib. No. 37	111-112	4					Secondary trib to North River
Unnamed Trib. No. 38	115-116	5					Secondary trib to North River

North River	120-121	1-3		Chinook salmon; Chum salmon; Coho; Winter Steelhead; Cutthroat trout	Cutthroat trout	AR	
Unnamed Trib. No. 39	123-124	1-3		Coho salmon	Salmonids		Primary trib to Little North River
Unnamed Trib. No. 40	127-128	4	1-3		Cutthroat trout		Primary trib to Little North River
Unnamed Trib. No. 41	129-130	5					Primary trib to Little North River
Unnamed Trib. No. 42	131-132	1-3			Cutthroat trout		Primary trib to Little North River
Unnamed Trib. No. 43	133-134	1-3		Coho salmon	Cutthroat trout	AR	Primary trib to Little North River
Unnamed Trib. No. 44	136-137	4					Primary trib to Little North River
Unnamed Trib. No. 45	137-138	5					Primary trib to Little North River
Unnamed Trib. No. 46	141-142	1-3		Coho salmon	Cutthroat trout	R	Primary trib to Little North River
Little North River	141-142	1-3		Coho salmon; Cutthroat trout	Cutthroat trout; sculpin; lamprey	AR	
Unnamed Trib. No. 47	147-148	5					Secondary to Brick Cr
Unnamed Trib. No. 48	149-150	5					Secondary to Brick Cr
Unnamed Trib. No. 49	155-156	5					Primary trib to Mill Cr
Unnamed Channel No. 4	163-164	5					
Unnamed Channel No. 5	164-165	5					
Unnamed Channel No. 6	167-168	5					
* DNR Stream Typing:	1-3 are fish-bearing streams						
	4 is perennial non-fish-bearing						
	5 is intermittent non-fish-bearing						
** A = Priority Anadromous Fish							
R = Priority Resident Fish							
† = Data Sources: Washington State Natural Heritage Database; Washington State Priority Habitats and Species Database;							
Williams et al., 1975; and WDFW electroshocking and stream-typing data							
<sup>a</sup> Based on field survey data for essential fish habitat							

**Table B-3: Fish and Wildlife Potentially Occurring in the Project Corridor (WDFW 2002c).**

Common Name	Scientific Name	Listing Status	
		State	Federal
Mammals			
Beaver	<i>Castor canadensis</i>		
Bendire's Shrew	<i>Sorex bendirii</i>		
Big Brown Bat	<i>Eptesicus fuscus</i>		
Black Bear	<i>Ursus americanus</i>		
Bobcat	<i>Lynx rufus</i>		
Bushy-tailed Woodrat	<i>Neotoma cinerea</i>		
California Myotis	<i>Myotis californicus</i>		
Coast Mole	<i>Scapanus orarius</i>		
Coyote	<i>Canis latrans</i>		
Creeping Vole	<i>Microtus oregoni</i>		
Deer Mouse	<i>Peromyscus maniculatus</i>		
Douglas' Squirrel	<i>Tamiasciurus douglasii</i>		
Elk	<i>Cervus elaphus</i>		
Ermine	<i>Mustela erminea</i>		
Fisher	<i>Martes pennanti</i>	Endangered	Species of Concern*
Forest Deer Mouse	<i>Peromyscus keeni</i>		
Gapper's Red-backed Vole	<i>Clethrionomys gapperi</i>		
Hoary Bat	<i>Lasiurus cinereus</i>		
House Mouse	<i>Mus musculus</i>		
Little Brown Myotis	<i>Myotis lucifugus</i>		
Long-eared Myotis	<i>Myotis evotis</i>		
Long-legged Myotis	<i>Myotis volans</i>		
Long-tailed Vole	<i>Microtus longicaudus</i>		
Mink	<i>Mustela vison</i>		
Montane Shrew	<i>Sorex monticolus</i>		
Mountain Beaver	<i>Aplodontia rufa</i>		
Mountain Lion	<i>Felis concolor</i>		
Mule Deer	<i>Odocoileus hemionus</i>		
Muskrat	<i>Ondatra zibethicus</i>		
Northern Flying Squirrel	<i>Glaucomys sabrinus</i>		
Norway Rat	<i>Rattus norvegicus</i>		
Opossum	<i>Didelphis virginiana</i>		
Pacific Jumping Mouse	<i>Zapus trinotatus</i>		
Porcupine	<i>Erethizon dorsatum</i>		
Raccoon	<i>Procyon lotor</i>		
Red Fox	<i>Vulpes vulpes</i>		
River Otter	<i>Lutra canadensis</i>		
Shrew-mole	<i>Neurotrichus gibbsii</i>		
Silver-haired Bat	<i>Lasionycteris noctivagans</i>		
Snowshoe Hare	<i>Lepus americanus</i>		
Spotted Skunk	<i>Spilogale gracilis</i>		
Striped Skunk	<i>Mephitis mephitis</i>		
Townsend's Big-eared Bat	<i>Plecotus townsendii</i>	Candidate	
Townsend's Chipmunk	<i>Tamias townsendii</i>		
Townsend's Mole	<i>Scapanus townsendii</i>		
Trowbridge's Shrew	<i>Sorex trowbridgii</i>		
Vagrant Shrew	<i>Sorex vagrans</i>		
Yuma Myotis	<i>Myotis yumanensis</i>		



## Birds

American Goldfinch	<i>Carduelis tristis</i>		
American Robin	<i>Turdus migratorius</i>		
American/Northwestern Crow	<i>Corvus brachyrhynchos/caurinus</i>		
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Threatened	Threatened
Band-tailed Pigeon	<i>Columba fasciata</i>		
Barn Owl	<i>Tyto alba</i>		
Barn Swallow	<i>Hirundo rustica</i>		
Barred Owl	<i>Strix varia</i>		
Bewick's Wren	<i>Thryomanes bewickii</i>		
Black-capped Chickadee	<i>Parus atricapillus</i>		
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>		
Black-throated Gray Warbler	<i>Dendroica nigrescens</i>		
Blue Grouse	<i>Dendragapus obscurus</i>		
Brown Creeper	<i>Certhia americana</i>		
Brown-headed Cowbird	<i>Molothrus ater</i>		
Bushtit	<i>Psaltiriparus minimus</i>		
Cedar Waxwing	<i>Bombycilla cedrorum</i>		
Chestnut-backed Chickadee	<i>Parus rufescens</i>		
Cliff Swallow	<i>Hirundo pyrrhonota</i>		
Common Loon	<i>Gavia immer</i>	Sensitive	
Common Nighthawk	<i>Chordeiles minor</i>		
Common Raven	<i>Corvus corax</i>		
Common Yellowthroat	<i>Geothlypis trichas</i>		
Dark-eyed Junco	<i>Junco hyemalis</i>		
Downy Woodpecker	<i>Picoides pubescens</i>		
Evening Grosbeak	<i>Coccothraustes vespertinus</i>		
Golden-crowned Kinglet	<i>Regulus satrapa</i>		
Gray Jay	<i>Perisoreus canadensis</i>		
Great Horned Owl	<i>Bubo virginianus</i>		
Hairy Woodpecker	<i>Picoides villosus</i>		
Hutton's Vireo	<i>Vireo huttoni</i>		
Killdeer	<i>Charadrius vociferus</i>		
Marbled Murrelet	<i>Brachyramphus marmoratus</i>	Threatened	Threatened
Northern Flicker	<i>Colaptes auratus</i>		
Northern Pygmy-Owl	<i>Glaucidium gnoma</i>		
Northern Saw-whet Owl	<i>Aegolius acadicus</i>		
Northern Spotted Owl	<i>Strix occidentalis caurina</i>	Endangered	Threatened
Olive-sided Flycatcher	<i>Contopus borealis</i>		
Orange-crowned Warbler	<i>Vermivora celata</i>		
Pacific-slope/Cordilleran Flycatcher	<i>Empidonax difficilis/occidentalis</i>		
Pileated Woodpecker	<i>Dryocopus pileatus</i>	Candidate	
Pine Siskin	<i>Carduelis pinus</i>		
Purple Finch	<i>Carpodacus purpureus</i>		
Red Crossbill	<i>Loxia curvirostra</i>		
Red-breasted Sapsucker	<i>Sphyrapicus ruber</i>		
Red-tailed Hawk	<i>Buteo jamaicensis</i>		
Red-winged Blackbird	<i>Agelaius phoeniceus</i>		
Rock Dove	<i>Columba livia</i>		
Ruffed Grouse	<i>Bonasa umbellus</i>		
Rufous Hummingbird	<i>Selasphorus rufus</i>		
Song Sparrow	<i>Melospiza melodia</i>		
Spotted Towhee	<i>Pipilo maculatus</i>		
Swainson's Thrush	<i>Catharus ustulatus</i>		
Tree Swallow	<i>Tachycineta bicolor</i>		
Turkey Vulture	<i>Cathartes aura</i>		
Varied Thrush	<i>Ixoreus naevius</i>		
Vaux's Swift	<i>Chaetura vauxi</i>	Candidate	
Violet-green Swallow	<i>Tachycineta thalassina</i>		
Warbling Vireo	<i>Vireo gilvus</i>		
Western Screech-Owl	<i>Otus kennicottii</i>		
Western Tanager	<i>Piranga ludoviciana</i>		
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>		
Wilson's Warbler	<i>Wilsonia pusilla</i>		
Winter Wren	<i>Troglodytes troglodytes</i>		
Wood Duck	<i>Aix sponsa</i>		

### Reptile and Amphibians

Bullfrog	<i>Rana catesbeiana</i>		
Columbia Torrent Salamander	<i>Rhyacotriton kezeri</i>	Candidate	Species of Concern*
Common Garter Snake	<i>Thamnophis sirtalis</i>		
Cope's Giant Salamander	<i>Dicamptodon copei</i>		
Dunn's Salamander	<i>Plethodon dunni</i>	Candidate	
Ensatina	<i>Ensatina eschscholtzii</i>		
Long-toed Salamander	<i>Ambystoma macrodactylum</i>		
Northwestern Salamander	<i>Ambystoma gracile</i>		
Pacific Giant Salamander	<i>Dicamptodon tenebrosus</i>		
Pacific Treefrog	<i>Hyla regilla</i>		
Red-legged Frog	<i>Rana aurora</i>		
Roughskin Newt	<i>Taricha granulosa</i>		
Tailed Frog	<i>Ascaphus truei</i>		
Western Redback Salamander	<i>Plethodon vehiculum</i>		
Western Toad	<i>Bufo boreas</i>	Candidate	

### Fish

Bull trout	<i>Salvelinus confluentus</i>	Candidate	Threatened
Chinook salmon	<i>Oncorhynchus tshawytscha</i>		
Chum salmon	<i>Oncorhynchus keta</i>		
Coho salmon	<i>Oncorhynchus kisutch</i>		Candidate
Coastal resident/searun cutthroat trout	<i>Oncorhynchus clarki clarki</i>		
Pacific lamprey	<i>Entosphenus tridentatus</i>		Species of Concern*
River Lamprey	<i>Lampetra ayresi</i>	Candidate	Species of Concern*
Sculpin	<i>Cottus sp.</i>		
Steelhead trout	<i>Oncorhynchus mykiss</i>		

\*Species of Concern is an informal federal status that has no regulatory standing or implications.

**Table B-4: Population Trends for Grays Harbor and Pacific Counties, 1980-2002**

County	1980	1990	2000	2002
Grays Harbor County	66,314	64,175	67,194	68,400
Pacific County	17,237	18,882	20,984	21,000
Total, Two Counties	83,551	83,057	88,178	89,400
Percent Change	na	-0.6%	6.2%	1.4%
Percent of Total State Population	2.0%	1.7%	1.5%	1.5%
State of Washington	4,132,353	4,866,659	5,894,121	6,041,700
Percent Change	na	17.8%	21.1%	2.5%

Note: na is "not applicable."

Sources: U.S. Bureau of Census; Washington State Office of Financial Management

**Table B-5: Full and Part-time Employment in Grays Harbor and Pacific Counties, 2000**

Sector	Grays Harbor	Pacific	Two-County Total	Washington State
Total full-time and part-time employment	32,520	9,544	42,064	3,560,164
Wage and salary employment	25,580	6,721	32,301	2,938,765
Proprietors' employment	6,940	2,823	9,763	621,399
Farm proprietors' employment	500	317	817	38,711
Nonfarm proprietors' employment 2/	6,440	2,506	8,946	582,688
Farm employment	604	363	967	79,886
Nonfarm employment	31,916	9,181	41,097	3,480,278
Private employment	26,653	7,309	33,962	2,933,709
Ag. services, forestry, fishing, & other 3/	1,224	961	2,185	64,508
Mining	84	41	125	5,664
Construction	1,790	388	2,178	216,748
Manufacturing	4,809	1,059	5,868	371,436
Transportation and public utilities	1,210	178	1,388	167,892
Wholesale trade	781	67	848	168,912
Retail trade	6,063	1,624	7,687	594,402
Finance, insurance, and real estate	2,079	607	2,686	272,353
Services	8,613	2,384	10,997	1,071,794
Government and government enterprises	5,263	1,872	7,135	546,569
Federal, civilian	248	75	323	69,151
Military	293	162	455	72,831
State and local	4,722	1,635	6,357	404,587
State	1,000	311	1,311	132,128
Local	3,722	1,324	5,046	272,459

Source: U.S. Bureau of Economic Analysis, Regional Economic Information System.

**Table B-6: Wage and Salary Employment in Grays Harbor and Pacific Counties, 2000**

Sector	Grays Harbor County	Pacific County	Two-county Region Total	Washington State
Agriculture, forestry & fishing	534	396	930	91,530
Construction & mining	1,162	228	1,390	152,790
Manufacturing	4,267	900	5,167	345,830
Transportation & public utilities	795	83	878	139,684
Wholesale trade	611	35	646	150,196
Retail trade	4,780	1,176	5,956	483,740
Finance, insurance & real estate	1,015	192	1,207	133,937
Services	5,622	1,375	6,997	747,048
Government	4,875	1,685	6,560	458,482
Total	23,661	6,070	29,731	2,703,237

Source: Washington State Employment Security Department, Labor Market & Economic Analysis Branch.

**Table B-7: Income Characteristics in Grays Harbor and Pacific Counties**

<b>County/State</b>	<b>1980</b>	<b>1990</b>	<b>2000</b>
<b>Grays Harbor County</b>			
Total personal income (\$000)	\$1,308,179	\$1,408,531	\$1,471,312
Net earnings (\$000)	\$910,648	\$843,856	\$852,682
Dividends, interest & rent (\$000)	\$212,758	\$274,679	\$272,156
Transfer payments (\$000)	\$184,773	\$289,996	\$346,474
Per capita income (\$)	\$19,690	\$21,873	\$21,908
<b>Pacific County</b>			
Total personal income (\$000)	\$324,050	\$390,994	\$440,091
Net earnings (\$000)	\$195,608	\$196,437	\$212,166
Dividends, interest & rent (\$000)	\$69,815	\$100,034	\$108,981
Transfer payments (\$000)	\$58,627	\$94,523	\$118,944
Per capita income (\$)	\$18,676	\$20,621	\$21,042
<b>Two-county Region</b>			
Total personal income (\$000)	\$1,632,228	\$1,799,525	\$1,911,403
Net earnings (\$000)	\$1,106,255	\$1,040,293	\$1,064,848
Dividends, interest & rent (\$000)	\$282,572	\$374,713	\$381,137
Transfer payments (\$000)	\$243,401	\$384,519	\$465,418
Per capita income (\$)	\$19,480	\$21,588	\$21,702
<b>Washington State</b>			
Total personal income (\$000)	\$88,377,791	\$136,513,481	\$184,517,693
Net earnings (\$000)	\$64,270,728	\$93,207,248	\$129,712,222
Dividends, interest & rent (\$000)	\$14,577,114	\$27,193,915	\$33,121,758
Transfer payments (\$000)	\$9,529,950	\$16,112,319	\$21,683,713
Per capita income (\$)	\$21,273	\$27,843	\$31,230

**Table B-8: Race Distribution in the Two-County Region and Washington State, 2000**

Race	Grays Harbor County		Pacific County	
	Number	Percent	Number	Percent
One Race	65,111	96.9%	20,392	97.2%
White	59,335	88.3%	18,998	90.5%
Black or African American	226	0.3%	42	0.2%
American Indian or Alaska Native	3,132	4.7%	513	2.4%
Asian	818	1.2%	436	2.1%
Hawaiian & Other Pacific Islander	73	0.1%	19	0.1%
Some other race	1,527	2.3%	384	1.8%
Two or more Races	2,083	3.1%	592	2.8%
Hispanic Origin (of any race)	3,258	4.8%	1,052	5.0%
Total	67,194	100.0%	20,984	100.0%

Race	Two-County Region		Washington State	
	Number	Percent	Number	Percent
One Race	85,503	97.0%	5,680,602	96.4%
White	78,333	88.8%	4,821,823	81.8%
Black or African American	268	0.3%	190,267	3.2%
American Indian or Alaska Native	3,645	4.1%	93,301	1.6%
Asian	1,254	1.4%	322,335	5.5%
Hawaiian & Other Pacific Islander	92	0.1%	23,953	0.4%
Some other race	1,911	2.2%	228,923	3.9%
Two or more Races	2,675	3.0%	213,519	3.6%
Hispanic Origin (of any race)	4,310	4.9%	441,509	7.5%
Total	88,178	100.0%	5,894,121	100.0%

Note: Some other race, refers to a “write-in” category in which respondents listed multi-racial, mixed, interracial, Hispanic or Latino. The Census Bureau estimates that 97 percent of respondents who reported as “Some other race” were Hispanic or Latino.

Source: U.S. Census Bureau.

**Table B-9: Median Household Incomes of Study Area and Washington State, 2001**

Geographic Area	2001 Median Household Income	Percent of Median
Grays Harbor County	\$36,761	75.82%
Pacific County	\$33,999	70.13%
Two-County region	\$36,468	75.22%
Washington State	\$48,482	100.00%

Source: Washington State Office of Financial Management. *2001 Population Trends for Washington State*.

**Table B-10: Construction Noise in the Vicinity of a Representative Construction Site**

Distance from Construction Site (feet)	Hourly Leq (dBA)
50	89
100	83
200	77
400	71
800	65
1600	59

Note: The following assumptions were used:

Equipment used: (1) each- grader, bulldozer, heavy truck, backhoe, Pneumatic tools, concrete pump, crane

Reference noise level: 89 dBA ( $L_{eq}$ )

Distance for the reference noise level: 50 feet

Noise attenuation rate: 6 dBA/doubling of distance

This calculation does not include the effects, if any, of local shielding or atmospheric attenuation.

**Table B-11. Proposed Structure Locations in Relation to Wetlands and Wetland Buffers**

Number of Structures	Wetland Classification Category and Buffer Width	Effect of Existing and Proposed Structures on Wetlands and Wetland Buffers
<b>PACIFIC COUNTY:</b>	<b>Pacific County Wetland Buffer Widths:</b> Category 3 wetland – 50 foot buffer Category 4 wetland – 25 foot buffer	
2	Category 3 and 4	<b>Existing and proposed structures inside buffer;</b> one structure is between wetlands and the proposed structure would be closer to one wetland as it becomes further from another, another structure was moved to the outer edge of the buffer
1	Category 4	<b>Existing structure in wetland would remain in wetland</b> because the wetland is a long, linear wetland with a boundary 65 feet south of the structure and it extends several hundred feet north of the structure
1	Category 4	<b>Existing structures in wetland, proposed structures would be within wetland buffer</b>
2	Category 4	<b>Existing structure within wetland, proposed structure would be moved outside wetland buffer</b>

<b>Number of Structures</b>	<b>Wetland Classification Category and Buffer Width</b>	<b>Effect of Existing and Proposed Structures on Wetlands and Wetland Buffers</b>
<b>GRAYS HARBOR COUNTY:</b>	<b>WA Department of Ecology Recommended Wetland Buffer Widths:</b> Category 2 wetland – 100 to 200 foot buffer Category 3 wetland – 50 to 100 foot buffer Category 4 wetland – 25 to 50 foot buffer	
2	Category 2	<b>Existing structure within wetland, proposed structures would be moved outside wetland buffer</b> (realignment area to avoid wetland impacts)
1	Category 3	<b>Existing and proposed structure inside buffer;</b> structure is between two wetlands
2	Category 3	<b>Existing structures in wetland, proposed structures would be within the wetland buffer</b>
12	Category 3 and Category 4	<b>Existing and proposed structures outside buffer</b>
1	Category 4	<b>Existing structure in wetland would remain in wetland</b> because the wetland is a long, linear wetland with a boundary 100 feet south of the structure and it extends several hundred feet north of the structure; the structures could not be moved outside the wetland.
4	Category 4	<b>Existing and proposed structures within buffer, but proposed structures moved further away from wetland</b>
2	Category 4	<b>Existing structures within or on edge of buffer, proposed structures would be outside buffer</b>